

ABSTRACT OF THE DISCLOSURE

A single-inductor dual-output buck converter facilitates power conversion by converting a single DC power source/supply into two separate DC outputs, each of which can be configured to provide a selected/desired voltage. The
5 converter includes a single inductor and three power switches, which control operation of the converter. The converter has four basic stages of operation in which power is initially supplied to a first output that also stores charge. Subsequently, the stored charge of the first output is employed to provide power to a second output.